

# Recombinant Human Casein Beta, His-tagged

**Cat. No.** CSN2-5541H    **Lot. No.** (See product label)

## SPECIFICATION

|                                |                                                                                                                                                                                                                                                                         |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>        | Recombinant human CSN2protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.                                                                                                                              |
| <b>Species</b>                 | Human                                                                                                                                                                                                                                                                   |
| <b>Description</b>             | CSN2, also known as beta-casein precursor, belongs to the beta-casein family. CSN2 has important role in determination of the surface properties of the casein micelles.                                                                                                |
| <b>Form</b>                    | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 0.5M NaCl, 0.25M imidazole, 1mM DTT, 0.1mM PMSF.                                                                                                                                                          |
| <b>Molecular Weight</b>        | 26.6 kDa(236aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                  |
| <b>Purity</b>                  | > 95% by SDS-PAGE                                                                                                                                                                                                                                                       |
| <b>Concentration</b>           | 0.25mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                |
| <b>Sequences of aminoacids</b> | MGSSHHHHHSSGLVPRGSH MGSHMRETIE SLSSEESIT EYKQKVEKVK<br>HEDQQQGEDE HQDKIYPSFQ PQPLIYPFVEPIPYGFLPQN ILPLAQPAVV<br>LPVPQPEIME VPKAKDTVYT KGRVMPVLKS PTIPFFDPQI<br>PKLTDLENLHLPLLLQPLM QQVPQPIPQT LALPPQPLWS VPQPKVLPPI<br>QQVVPYPQRA VPVQALLNQ ELLLNPTHQIYPVTQPLAPV HNPISV |
| <b>Storage</b>                 | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store                                                                                                                                                                                  |

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at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Pathways** Glucocorticoidreceptor regulatory network; Signaling events mediated by PTP1B

## GENE INFORMATION

**Gene Name** CSN2 casein beta [ Homosapiens ]

**Official Symbol** CSN2

**Synonyms** CSN2; casein beta; CASB; beta-casein

**Gene ID** 1447

**mRNA Refseq** NM\_001891

**Protein Refseq** NP\_001882

**MIM** 115460

**UniProt ID** P05814

**Chromosome Location** 4q21.1

**Function** calcium ion binding; enzyme inhibitoractivity; transporter activity

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